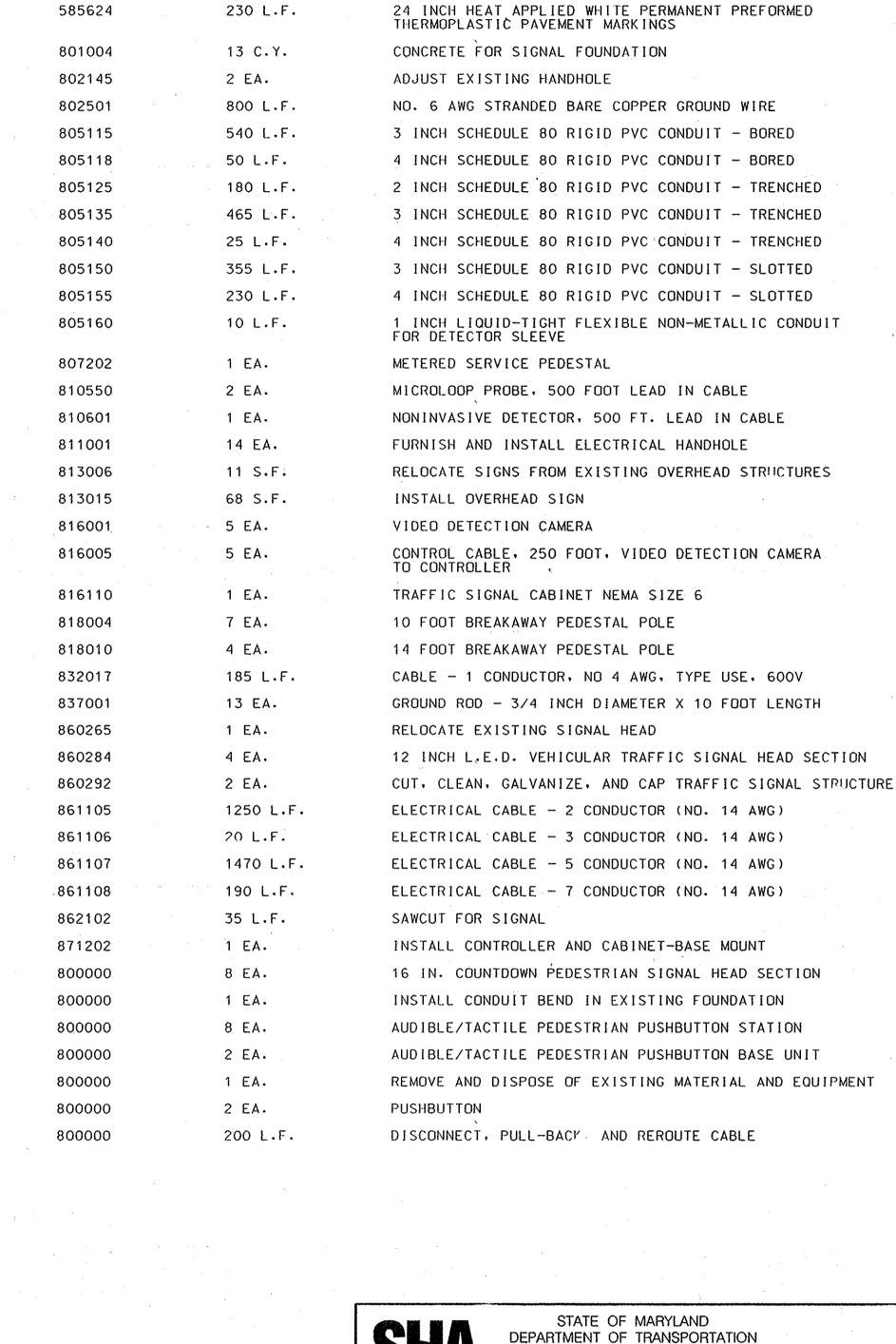
## PROJECT DESCRIPTION **EQUIPMENT LIST "A"** GENERAL THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNALS AT THE INTERSECTIONS OF U.S. 40 ALT (NATIONAL HIGHWAY) AND CAMPGROUND ROAD / CUPLER DRIVE AND U.S. 40 A. EQUIPMENT TO BE SUPPLIED BY THE SHA ALT (NATIONAL HIGHWAY) AND LONG DRIVE AND THE INSTALLATION OF HAZARD IDENTIFICATION BEACONS AT THE INTERSECTION OF U.S. 40 ALT (NATIONAL HIGHWAY) AND GRANT STREET IN ALLEGANY COUNTY, MARYLAND. DESCRIPTION CATEGORY CODE QUANTITY U.S. 40 ALT (NATIONAL HIGHWAY) IS ASSUMED TO RUN IN A EAST-WEST DIRECTION. 900000 1 EA VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS INTERSECTION OPERATION U.S. 40 ALT AND LONG DRIVE FULL-TRAFFIC-ACTUATED, EIGHT PHASE CONTROLLER WITH AN 971017 1 EA INTERSECTION MONITOR HOUSED IN A NEMA "6" BASE MOUNTED CABINET. THE INTERSECTION OPERATION WILL REMAIN THE SAME. AN ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE WEST LEG OF U.S. 40 ALT. 973023 68 S.F. SHEET ALUMINUM SIGNS TO CONSIST OF : U.S. 40 ALT AND CAMPGROUND ROAD / CUPLER DRIVE R10-3(1) SIGN (9 IN, $\times$ 15 IN,) - POLE MOUNT THE INTERSECTION OPERATION WILL REMAIN THE SAME. W11-2 SIGN (BLK/FY) (30 IN. x 30 IN.) - POLE MOUNT LTERNATE PEDESTRIAN PHASES WILL BE PROVIDED ACROSS CAMPGROUND ROAD, THE WEST LEG OF U.S. 40 ALT, M6-2(R) SIGN (BLK/FY) (21 IN. x 15 IN.) - POLE MOUNT AND CUPLER DRIVE. M6-2(L) SIGN (BLK/FY) (21 IN. $\times$ 15 IN.) - POLE MOUNT. U.S. 40 ALT AND GRANT STREET GM-1 SIGN (BLK/FY) (36 IN. × 24 IN.) - POLE MOUNT THE HAZARD IDENTIFICATION BEACONS WILL OPERATE IN A FLASHING MODE WHEN ACTIVATED BY A PUSHBUTTON. GM-2 SIGN (BLK/W) (9 IN. x 12 IN.) - POLE MOUNT CONTROLLER REQUIREMENTS THE EXISTING U.S. 40 ALT AND LONG DRIVE AND U.S. 40 ALT AND CAMPGROUND ROAD/CUPLER DRIVE BASE MOUNTED CABINETS AND CONTROLLERS SHALL BE USED FOR U.S. 40 ALT. AND GRANT STREET. INSTALL A FULL-TRAFFIC-ACTUATED. EIGHT PHASE CONTROLLER WITH AN INTERSECTION MONITOR HOUSED IN A NEMA "6" BASE MOUNTED CABINET. MAINTENANCE OF TRAFFIC EQUIPMENT LIST "C" THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. STANDARD NO. MD-104.03-01 (SHOULDER WORK) C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA STANDARD NO. MD-104.03-03 (LEFT LANE CLOSURE) ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR STANDARD NO. MD-104.03-05 (RIGHT LANE CLOSURE) PROJECT CONTACTS THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS: MR. GEORGE SMALL ASSISTANT DISTRICT ENGINEER - TRAFFIC MR. BOB ROWAN DISTRICT UTILITY ENGINEER PHONE: (301) 729-8444 PHONE: (301) 729-8439 MR. RICHARD L. DAFF. SR. CHIEF. TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630 MR. ANTHONY CRAWFORD ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 729-8457 WIRING DIAGRAM WIRING DIAGRAM WIRING DIAGRAM U.S. 40 ALT AT CAMPGROUND RD./CUPLER DR U.S. 40 ALT AT LONG DRIVE U.S. 40 ALT AT GRANT ST C.T C.T rF,G ~A.B.C.D.E.F.G.H -A,B,C,D,E,F,G,H G.H.L.M.Q-D.H.J--A,B,C,E,F,G ≻B,F,G C.G.H.J.K.L.M.Q.R.T-ML--A,B,E,F,G LA,B,E,F,G,H,J,K WIRING KEY



EQUIPMENT LIST "B"

TEST PIT EXCAVATION

DESCRIPTION

THERMOPLASTIC PAVEMENT MARKINGS

12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

QUANTITY

12 C.Y.

520 L.F.

CATEGORY CODE

203030

585620

NARSA.

Whitman, Requardt and Associates, LLP Engineers, Architects and Planners 801 South Caroline Street Baltimore, Maryland 21231 (410) 235-3450

**GENERAL INFORMATION SHEET** NONE DATE OCTOBER 2006 CONTRACT NO. AL8815184

STATE HIGHWAY ADMINISTRATION

US 40 ALTERNATE - LAVALE STREETSCAPE

FROM MD 658 (CAMPGROUND ROAD) TO BRADDOCK STREET

OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION

SHEET NO. 46 OF 129

COUNTY ALLEGANY DESIGNED BY JHR DRAWN BY JHR LOGMILE CHECKED BY NML T.I.M.S. NO. <u>G972</u> F.A.P. NO. SEE TITLE SHEET TOD NO.

TSP-4

DRAWING NO.

PLOTTED: 10/30/2006 FILE: N:\31492118\CADD\PSG-N004\_US40ALT.DGN

STRANDED BARE COPPER GROUND ( WIRE (NO. 6 A.W.G.)

G \ 5-CONDUCTOR ELECTRICAL

H CABLE (NO. 14 A.W.G.)

WIRING KEY

A VIDEO CAMERA DETECTION
B LEAD-IN CABLE

2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

> MICROLOOP PROBE LEAD-IN

ML - MICROLOOP PROBE SET + - 3/4 IN. X 10 FT. GROUND ROD

WIRING KEY VIDEO CAMERA DETECTION LEAD-IN CABLE

2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

- } WIRE (NO. 6 A.W.G.)

K }MICROLOOP PROBE LEAD-IN

STRANDED BARE COPPER GROUND

+ - 3/4 IN. X 10 FT. GROUND ROD

-B,E,F,N,O B,E,F,N,O-

A.B.C.D.E.F.G.H. J.K.M.N.O.P.Q.R.T 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

ML - MICROLOOP PROBE SET

C 3-CONDUCTOR ELECTRICAL D CABLE (NO. 14 A.W.G.) E 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.) PE - PROPOSED UNDERGROUND

A \ 5-CONDUCTOR ELECTRICAL

CABLE (NO. 14 A.W.G.)

ELECTRICAL SERVICE + -  $\frac{3}{4}$  IN. X 10 FT. GROUND ROD